

Coordinate Geometry Quiz PDF

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What is the slope of the line passing through the points (1, 2) and (3, 6)?

01

02

03

04

Which points are 5 units apart? (Select all that apply)

(0, 0) and (3, 4)(1, 1) and (4, 5)

- (2, 2) and (6, 6)
- (3, 3) and (6, 7)

Which of the following are true about the Cartesian plane? (Select all that apply)

□ It has four quadrants

 \Box The origin is at (0, 0)

The x-axis is vertical

The y-axis is horizontal

Describe a real-world scenario where you might need to use the distance formula in coordinate geometry.

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Which of the following lines have a slope of 1? (Select all that apply)

y = x + 2 y = 2x + 1 y = x - 3 y = -x + 1

Which equations represent lines with a slope of 2? (Select all that apply)

y = 2x + 3 y = -2x + 5 y - 1 = 2(x - 3)2x - y = 0

Explain how the four quadrants of the Cartesian plane are labeled and what distinguishes each quadrant.

How would you convert the standard form of a line equation Ax + By = C to the slope-intercept form y = mx + b?

How can the midpoint formula be used to find the center of a rectangle given its opposite corners?

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Discuss the differences between a parabola, an ellipse, and a hyperbola in terms of their equations and graphs.

Which of the following is a conic section?

- Triangle
- ⊖ Square
- Parabola
- Pentagon

If two lines are parallel, what can be said about their slopes?

- They are equal
- They are negative reciprocals
- They are zero
- \bigcirc They are undefined

What is the midpoint of the line segment joining (2, 3) and (4, 7)?

- (3, 5)
- (3, 4)
- (2, 5)
- (4, 5)

What is the point of intersection of the x-axis and y-axis called?



- ◯ Vertex
- ⊖ Origin
- O Midpoint
- Center

What is the radius of a circle with the equation $(x - 3)^2 + (y + 4)^2 = 25$?

- ⊖ 3
- **4**
- 05
- 06

Which of the following is the slope-intercept form of a line?

 $\bigcirc Ax + By = C$ $\bigcirc y = mx + b$ $\bigcirc y - y1 = m(x - x1)$ $\bigcirc x^{2} + y^{2} = r^{2}$

What is the distance between the points (3, 4) and (7, 1)?

- 05
- 06
- 7
- 08

Explain the significance of the slope of a line in real-world applications, such as in road construction or architecture.

Which of the following pairs of lines are perpendicular? (Select all that apply)

y = 2x + 1 and y = -1/2x + 3y = 3x + 4 and y = -1/3x - 2



y = x + 5 and y = -x + 1y = 4x - 1 and y = 1/4x + 2

Which of the following are equations of circles? (Select all that apply)

 $(x - 1)^{2} + (y + 2)^{2} = 9$ $x^{2} + y^{2} = 16$ $x^{2} - y^{2} = 25$ $(x + 3)^{2} + (y - 4)^{2} = 0$

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